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Title: **JP56162473A2: PREPARATION OF ORGANIC ELECTROLYTE BATTERY**

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Country: JP Japan
Kind: A

Inventor(s): TAKEMORI MASAMI
YOKOYAMA KENICHI

Applicant/Assignee: HITACHI MAXELL LTD

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Issued/Filed Dates: Dec. 14, 1981 / May 20, 1980

Application Number: JP1980000066719

IPC Class: H01M 4/08;

Priority Number(s): May 20, 1980 JP1980000066719

Abstract:

Purpose: To increase the operational voltage under low temperature and heavy load discharging by removing oils on the lithium surface through heat-treatment of lithium in a vacuum when a battery is produced using lithium as an active material for a cathode.

Constitution: A lithium plate stored in kerosene is taken out from the kerosene, rolled to a foil using liquid paraffin as a lubricant, placed in a vacuum dryer, evacuated to 100mmHg or less absolute pressure, heated at a temperature of 180°C, that is the melting point of lithium, or lower, and thus oils on the lithium surface is removed. Then, it is combined in a battery to form the battery. Because the reduction of the operational voltage under low temperature and heavy load discharging due to the oils on the lithium surface can be prevented, and the battery performance can be greatly improved.

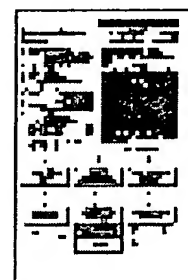
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Other Abstract Info: CHEMABS 096(14)112276H

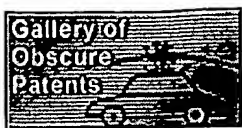
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PATENT ABSTRACTS OF JAPAN(21) Application number: **55066719**(51) Intl. Cl.: **H01M 4/08**(22) Application date: **20.05.80**

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(71) Applicant: **HITACHI MAXELL LTD**(72) Inventor: **TAKEMORI MASAMI
YOKOYAMA KENICHI**

(74) Representative:

**(54) PREPARATION OF
ORGANIC ELECTROLYTE
BATTERY**

(57) Abstract:

PURPOSE: To increase the operational voltage under low temperature and heavy load discharging by removing oils on the lithium surface through heat-treatment of lithium in a vacuum when a battery is produced using lithium as an active material for a cathode.

CONSTITUTION: A lithium plate stored in kerosene is taken out from the kerosene, rolled to a foil using liquid paraffin as a lubricant, placed in a vacuum dryer, evacuated to 100mmHg or less absolute pressure, heated at a temperature of 180°C, that is the melting point of lithium, or lower, and thus oils on the lithium surface is removed. Then, it is combined in a battery to form the battery. Because the reduction of the operational voltage under low temperature and heavy load discharging due to the oils on the lithium surface can be prevented, and the battery performance can be greatly improved.

